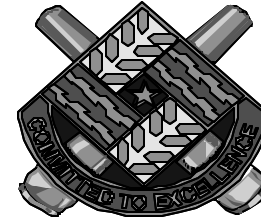
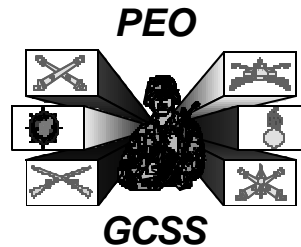




U.S. Army Operational
Support Command



U.S. Army
TACOM

Advanced Planning Briefing to Industry (APBI) for Tank And Medium Caliber Ammunition 14 Feb 01

Presented By:

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ADVANCED PLANNING BRIEFING TO INDUSTRY

TANK & MEDIUM CALIBER ARMAMENT SYSTEMS

Mr. Robert Morris
Project Manager



TANK & MEDIUM-CALIBER ARMAMENT SYSTEMS (TMAS) MISSION

Provide the Army and the Department of Defense With World Class Direct Fire Main Armaments for Use in Ground Combat Weapons Platforms

Platforms Include - Abrams Tank, Bradley Fighting Vehicles, Mobile Gun System and Future Combat System



PM TMA MAJOR ON-GOING INITIATIVES

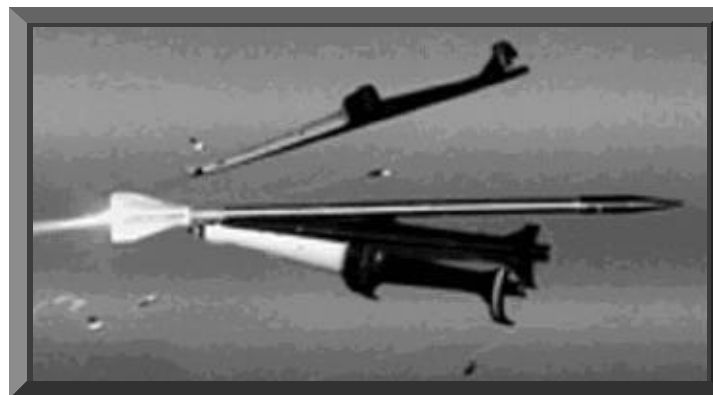
DEVELOPMENT

- 120mm Cartridges
 - M829E3 Kinetic Energy Cartridge (Alliant)
 - XM1002 Multi-Purpose Anti-Tank (MPAT) Trainer (Alliant)
 - XM1007 Tank Extended Range Munition-Kinetic Energy (Alliant)
 - Advanced Tungsten Kinetic Energy for Egypt (General Dynamics)
- Advanced Tank Armament System / L55 Cannon Evaluation (Rheinmetall, GDLS)



PRODUCTION

- 25mm M919 Kinetic Energy Cartridge (General Dynamics)
- 120mm M829A2 Kinetic Energy Cartridge (General Dynamics)
- 120mm M830A1 Multi-Purpose Cartridge (Alliant)
- 120mm XM908 High Explosive, Obstacle Reduction Cartridge (General Dynamics)



FY01 (EXISTING R&D CONTRACTS)

■ XM1002 (MPAT Trainer)

- Contract w/Alliant
 - ➡ R&D: FY00-FY03
 - ➡ Production Starts: FY04

■ M829E3 (KE)

- Contract w/Alliant
 - ➡ EMD Complete in FY02
 - ➡ Production Starts: FY02

■ KEW-A1 (Tungsten KE for Egypt)

- Contract w/General Dynamics
- Potential 5,000 Cartridge Add-On
 - ➡ Deliveries (3Q/4Q FY02)

■ TERM

- Contracts w/Alliant and Raytheon
- STO Effort to be complete in 4QFY01

FY01 (EXISTING PRODUCTION CONTRACTS)

■ XM908

- Contract w/General Dynamics
 - ➡ Deliveries Complete – FY01

■ M830A1 (MPAT)

- Contract w/Alliant
- Deliveries Complete - FY 02
 - ➡ No Additional U.S. Requirements Anticipated

■ M919

- Contract w/General Dynamics
- Deliveries Complete – FY02

■ M829A2 (KE)

- Contract w/General Dynamics
- Deliveries Complete – FY01
 - ➡ No Additional U.S. Requirements Anticipated

POTENTIAL OPPORTUNITIES FY02

- **120mm XM1028 CANISTER (WRAP)**
- **120mm TERM**
- **105mm AMMO for MGS**

CTG, 120MM, XM1028, CANISTER

- **Currently a Candidate for FY02 WRAP**
 - Planned Start in FY03 w/o WRAP
- **Acquisition Strategy – Competitive Best Value Award**
 - U.S./Canada
 - Performance Specification
 - Gov't Design/Test Data Provided for Info
- **Program Strategy (Preliminary)**
 - Contractor R&D Effort: FY02-FY03
 - Low Rate Prod. FY03: 2000 Cartridges
 - Full Rate Production
 - ➡ FY04 – FY07: 8000 Cartridges Per Year
 - ➡ FY08: 6000 Cartridges

POTENTIAL NEW MGS MUNITION

- **Bunker Buster (*11,500 Total* for Tactical and Ramp Up to 15,000/year for Training Cartridges)**
 - Defeat a Standard Infantry Bunker and Create an Opening in Double Reinforced Concrete Walls Large Enough for an Infantry Soldier and Equipment to Pass Through (2' X 4')

POTENTIAL ACQUISITION STRATEGY

■ Performance Specifications (U.S. Tech Data Provided For Information Only)

- Based on Current 105mm Ammo Brought to Current Safety Standards As Threshold With Aggressive Performance Levels As Objective (i.e. Dual Safe Fuze)

■ Full and Open Competition

- Non-Developmental Item (NDI) Acquisition
- Best Value Award
- North American Production Required

■ Award in 2QFY02

TANK EXTENDED RANGE MUNITION (TERM) CONCEPT

TERM Provides Precision Lethality With Extended Range Line-of-Sight and Beyond-Line-of-Sight Fires to the Armored Forces



- All Armored Vehicles
- Hardened fixed targets
- Stationary & Moving Targets
- Range From 3 km to 8 km
- Fire & Forget or Designation
- Day, Night & Limited Visibility
- MIA2 SEP, FBCB2 and AFATDS Compatible

TERM ACQUISITION STRATEGY

- **Award Multiple Phase Study Contracts (up to 4) in FY02 (Preliminary)**
 - **Optimize Overall System Capability**
 - ➔ **Cartridge**
 - ➔ **M1A2 System Enhancement Package**
 - ➔ **Communications: AFATDS, FBCB2, etc**
 - ➔ **Sensor**
- **Full & Open Competition**

SUMMARY

- Opportunities May Exist With:
 - 120mm Canister
 - 120mm TERM
 - 105mm Ammo for MGS
- Sub-Contracting Through System Contractors
- Opportunities – Funding and Requirement Dependent

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ADVANCED PLANNING BRIEFING TO INDUSTRY

14 FEB 2001

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OSC - On The Line

PROJECTED MEDCAL REQUIREMENTS

NOMENCLATURE	Qty 01	Qty 02	Qty Outyrs
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20mm

M51A4N Dummy	.330	0	No
PGU 28A/B	0	0	Yes
PGU 27A/B	1.442	6.460	Yes
PGU 27A/B & PGU 30A/B	.270	.625	Yes

25mm

M910 TPDS-T	1.101	1.664	Yes
M791 APDS-T	0	0	Yes
M793 TP-T	1.455	1.532	Yes

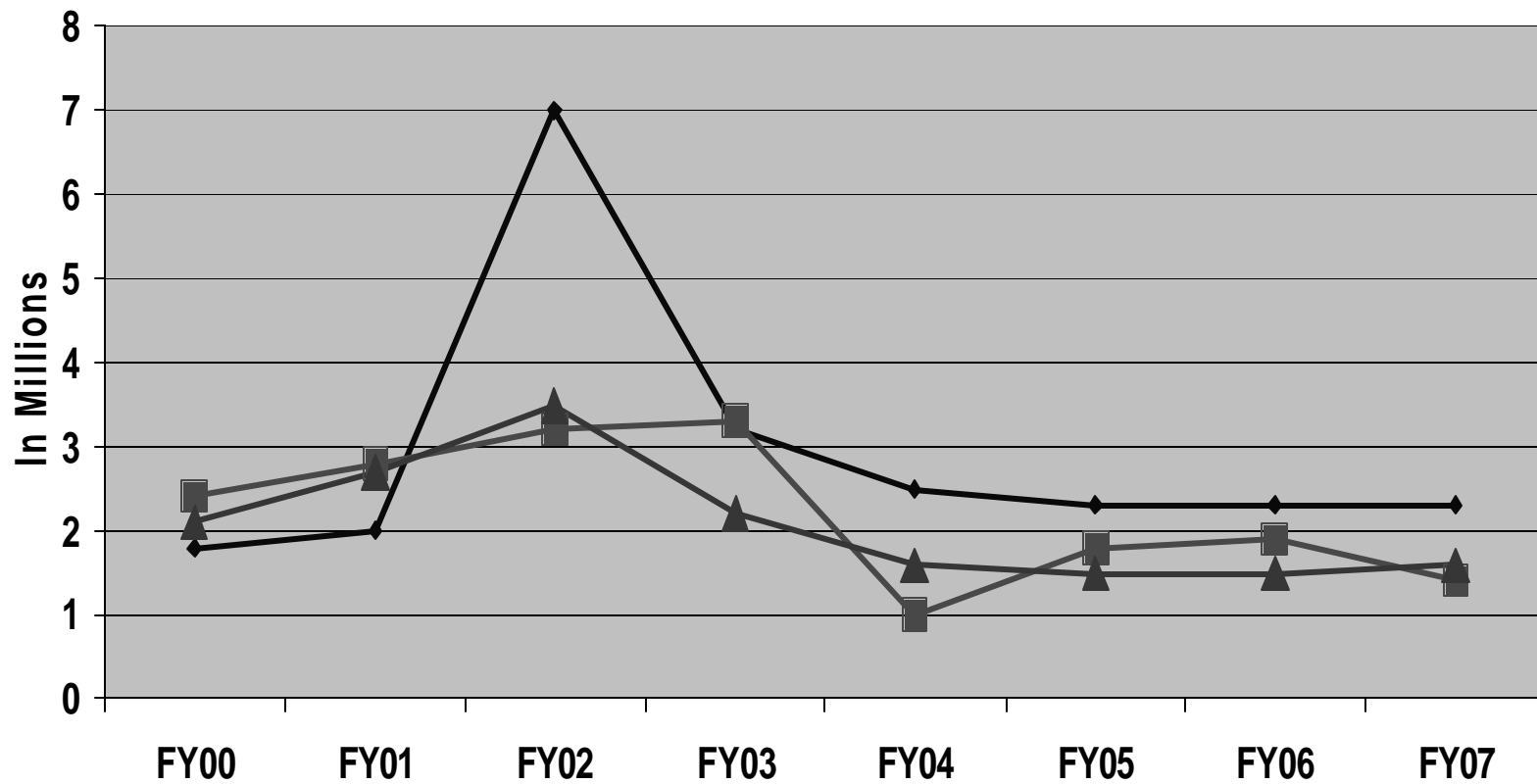
30mm

PGU 15/B	1.825	2.686	Yes
M788 TP	.820	.825	Yes
M789 HEDP	.088	0	No

MEDCAL TRENDS

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◆ 20mm ■ 25mm ▲ 30mm



MEDCAL ACQUISITION STRATEGY

CURRENT (thru FY03)

- M910, M793, M788 IN MULTI-YR THRU FY03
- ACQ PLAN COVERS 20MM THRU 30MM
- OTHER SERVICES W/ SIGNIFICANT RQMTS
- CURRENT PRODUCERS = GD-OTS AND ATK

FUTURE

- CON'T W/LONG-TERM CONTRACTS
- RESTRICTED - COMPETITIVE - BEST VALUE
- 2 SOURCES
- STRATEGIZE FROM A “FAMILY” PERSPECTIVE

PROJECTED TANK (TRNG) REQUIREMENTS

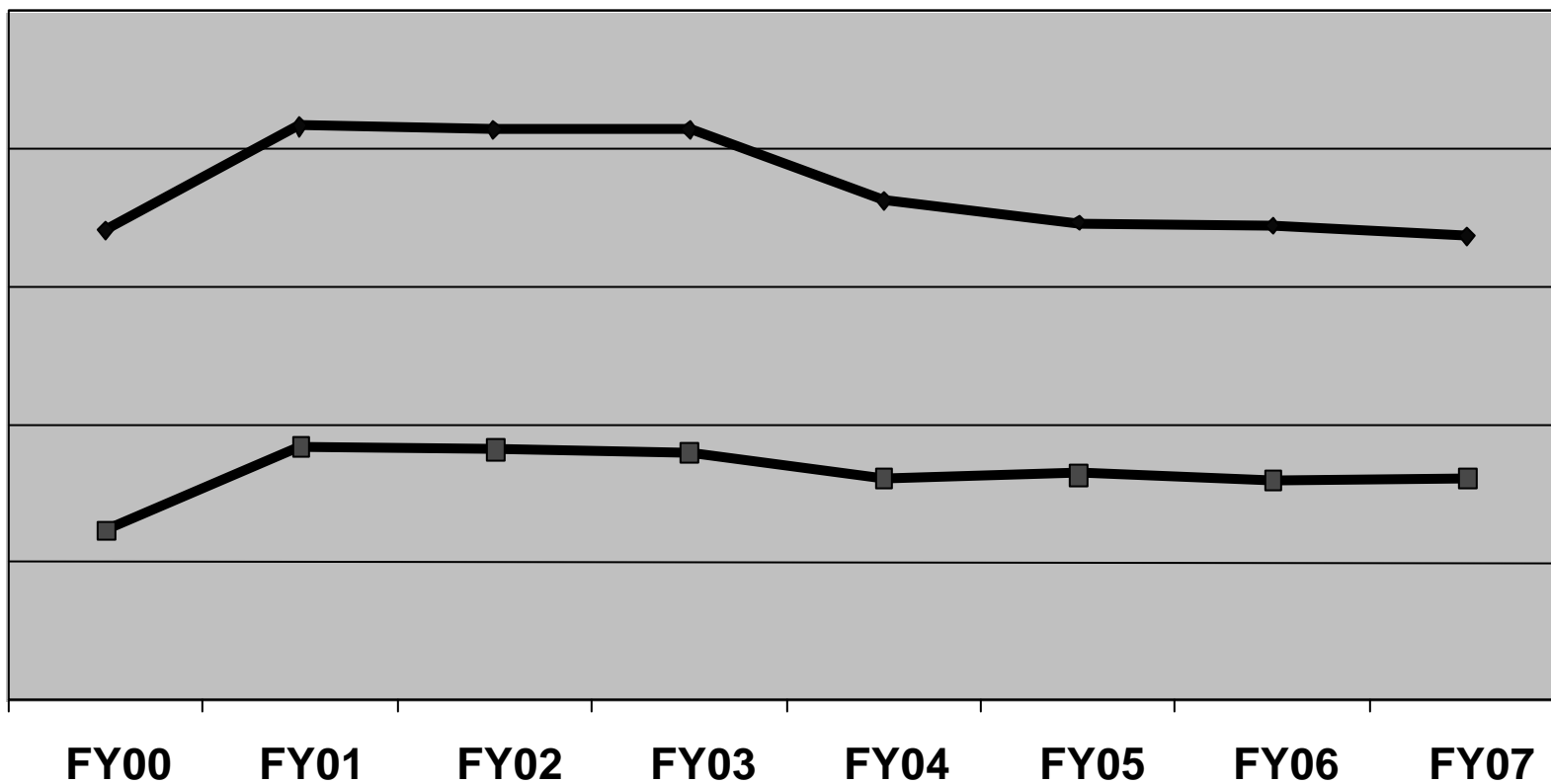
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NOMENCLATURE	Qty 01	Qty 02	Qty Outyrs
M865 KE	208K	207K	Yes
M831A1 HEAT	92K	91K	Yes

TANK (TRNG) TRENDS

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◆ M865 ■ M831A1



TANK (TRNG) ACQUISITION STRATEGY

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**U.S. Army Operational
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- | | | | |
|---|----------------|-----------|----------------------------|
| ■ | MULTI-YEAR I | 1995-1998 | w/ATK & Primex |
| ■ | MULTI-YEAR II | 1999-2003 | w/ATK & Primex
(GD-OTS) |
| ■ | MULTI-YEAR III | | |

Yes, planned for 2004-2008
Restrictive - Competitive – Best Value
Cut-in XM1002 for M831A1



POCs

U.S. Army Operational
Support Command

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